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09/705,105	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
GARLICK HARRISON & MARKISON LLP P O BOX 160727 FLANDERS, ANDREW C	09/705,105	11/02/2000	Daniel T. Bogard	SIG000053 4992		
P O BOX 160727	75	90 09/14/2006	EXAMINER			
	GARLICK HA	ARRISON & MARK	FLANDERS,	FLANDERS, ANDREW C		
	P O BOX 160727 AUSTIN, TX 78716			APTIBUT	DADED NUMBED	
				2615		

DATE MAILED: 09/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

_		Application No	D .	Applicant(s)				
•	09/705,105 BOGARD, DANIEL T.							
	Office Action Summary	Examiner		Art Unit				
		Andrew C. Flar		2615				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cov	er sheet with the co	orrespondence ad	dress			
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Do asions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS C 36(a). In no event, ho will apply and will expire, cause the application	COMMUNICATION wever, may a reply be time re SIX (6) MONTHS from to to become ABANDONED	l. ely filed the mailing date of this co O (35 U.S.C. § 133).				
Status								
2a)⊠	Responsive to communication(s) filed on <u>03 July</u> This action is FINAL . 2b) This Since this application is in condition for alloward closed in accordance with the practice under E	action is non-fince except for f	ormal matters, pro		merits is			
Dispositi	on of Claims							
5)□ 6)⊠ 7)□	 4) Claim(s) 1-46 is/are pending in the application. 4a) Of the above claim(s) 5,7,13,18,20,22,27,32,34,36,41 and 46 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-4,6,8-12,14-17,19,21,23-26,28-31,33,37-40 and 42-45 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Applicati	on Papers							
10) 🖾	The specification is objected to by the Examine The drawing(s) filed on <u>02 November 2002</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	re: a)⊠ accep drawing(s) be he tion is required if t	d in abeyance. See the drawing(s) is obje	37 CFR 1.85(a). ected to. See 37 CF	R 1.121(d).			
Priority u	nder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachment	(s)							
1 Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	5) [Interview Summary (Paper No(s)/Mail Dal Notice of Informal Pa Other:	te				

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DETAILED ACTION

Response to Arguments

Applicant's arguments filed 03 July 2006 have been fully considered but they are not persuasive.

Regarding the restriction Applicant alleges:

"MPEP § 806.03 states, in part, 'where the claims of an application define the same essential characteristics of a single disclosed embodiment of an invention, restriction there between should never be required. This is because the claims are but different definitions of the same disclosed subject matter, varying in breadth or scope of definition'."

Examiner agrees that restriction should never be required when claims are directed to a single disclosed embodiment, however, it is clear that the claims in the instant application are directed to three disclosed embodiments. A quick review of the brief description of the drawings shows that figures 2, 3 and 4 are three alternate embodiments of the content processing device. The remaining figures are further details of the elements in figures 2, 3 and 4. Thus there are at least three separate embodiments in the application. The claims, as grouped in the action mailed 08.

November 2006 claim subject matter directed to these three embodiments. Thus, contrary to Applicant's remarks, there is no *single* disclosed embodiment.

As such, the requirement for election is made final.

Applicant is reminded that upon the allowance of a generic claim, Applicant will be entitled to consideration of claims to additional species which are written in

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dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Regarding the 35 USC 103(a) rejections Applicant alleges:

"Yokozawa does not, however, teach or suggest processing data received from an external content display device to produce presentation information and processing content data for presentation on the external content display device based on the presentation information as is claimed in claim 1."

Examiner respectfully disagrees. As shown in the previous rejection mailed 08 November 2006 Yokozawa does teach processing data received (i.e. playing audio through 19) from an external content display device (the audio being passed through 214) to produce presentation information (i.e. the audio playback) and processing content data for presentation on the external content display device (i.e. displaying the track number and timing info) based on the presentation information (the track and timing info depend upon which track is selected via 214). All of these elements are clearly shown in Fig. 1 element 200 which was cited in the previous rejection.

Applicant further alleges:

Allan does not, however, teach separating modulated data from the content data, retrieving the data from the modulated data, and introducing the content data into a channel coupling the device to the external content display device as is claimed in claim 1.

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Examienr respectfully disagrees. Allen states very clearly in col. 4 lines 19 – 23 teach separating modulated data from the content data, retrieving the data from the modulated data (i.e. the <u>data and voice signals are separated</u> by the filter and sent to their appropriate locations). Further when taken in combination, the device introduces the content data into a channel coupling the device to the external content display device (i.e. the device of Allen sends the signals to the appropriate locations of Yokozawa.)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2 – 4, 6, 9 10, 12, 14, 15, 17, 19, 21, 24, 26, 29, 31, 33, 35, 38, 40, 42, 43 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokozawa (U.S. Patent 5,420,739) in view of Allen (U.S. Patent 4,442,540).

Regarding Claims 1, 14, 19 and 28, Yokozawa discloses:

A device for processing content data (abstract), the device comprises:

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data processing circuitry operable coupled to process data received from an external content display device to produce presentation information (the display and headphones, Fig. 1 elements 221 and 110 displays track and timing information from the portable audio device; Fig. 1 element 200);

content processing module operably coupled to process content data for presentation on the external content display device based on the presentation information (i.e. the portable audio player plays music through the headphones depending on the track selected, which is displayed; Fig. 1 elements 200, 221 and 110).

Yokozawa does not disclose a transceiving module operable coupled to the data processing circuitry and the content processing module, wherein the transceiving module separates modulated data from the content data, wherein the transceiving module retrieves the data from the modulated data, and where the transceiving module introduces the content data into a channel coupling the device to the external content display device.

The combination of Yokozawa in view of Allen discloses:

transceiving module operable coupled to the data processing circuitry and the content processing module (i.e. the device in Allen disclosed in figure 1 is attached between the player and the display/headphones and operates in both ways, sending data from the audio player to the display/headphones and sending data from the controls to the audio player in Yokozawa),

wherein the transceiving module separates the modulated data from the content data, wherein the transceiving module retrieves the data from the modulated data (i.e.

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at the receiver the speech and data signals are sent to an A/D converter and then through a time varying filter to separate the voice and data signals which are sent to their appropriate locations; col. 4 lines 19 – 23 in Allen; the locations in this instance being the display 221 and the headphones 110 in Yokozawa),

and wherein the transceiving module introduces the content data into a channel coupling the device to the external content display device (i.e. the voice signal is then sent to its appropriate location, in the combination, the headphones).

It would have been obvious to one of ordinary skill in the art at the time of the invention to add the system for combining audio and data for transmission over a single line as taught by Allen to the system portable audio system with a detachable control unit taught by Yokozawa. One would have been motivated to do so in order to efficiently transmit voice and data over a single cable avoiding the user of band-switching techniques thereby maximizing the audio's intelligibility; col. 2 lines 35 – 40 in Allen.

Regarding Claims 33 and 42, in addition to the elements stated above regarding independent claims 1, 14, 19 and 28, the combination of Yokozawa in view of Allen fails to disclose a processing module with a memory operably coupled to the processing module, wherein the memory includes operation instructions that cause the processing modules to carryout the features of claims 1, 14, 19 and 28.

However, Examiner takes official notice that it is notoriously well known to implement methods such as the ones disclosed in Applicant's claims 1, 14, 19 and 28

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on a programmable processor. One would have been motivated to do so in order to costs when manufacturing and provide more features in a smaller package.

Regarding Claim 2, in addition to the elements stated above regarding claim 1, the combination of Yokozawa in view of Allen further discloses:

wherein the content data comprises at least one of: audio data, video data, text data, and multimedia data (i.e. the system is an audio player; Fig. 1 in Yokozawa).

Regarding Claim 3, in addition to the elements stated above regarding claim 1, the combination of Yokozawa in view of Allen further discloses:

wherein the data comprises at least one of digitized audio, digitized video, and incoming remote control data (i.e. the audio player is controlled by the remote control; Fig. 1 element 217 in Allen).

Regarding Claim 4, in addition to the elements stated above regarding claim 1, the combination of Yokozawa in view of Allen further discloses:

wherein the remote control data comprises at least one of: volume adjust data, stop data, play data, pause data, rewind data, fast forward data, next track data, channel up/down data, bass boost data, record data, intensity data, contrast data, security access data, and telephone access code data (col. 7 lines 20 – 25 in Allen).

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Regarding Claims 6, 21 and 35, in addition to the elements stated above regarding claims 1, 19 and 33, the combination of Yokozawa in view of Allen further discloses:

wherein the transceiving module comprises:

high pass filter to separate the content data from the modulated data (i.e. the data and voice signals are separated by the filter and sent to their appropriate locations; col. 4 lines 18 – 23 in Allen);

gain module operable coupled to provide gain to the modulated data to produce gain modulated data (i.e. controls such as volume; col. 7 lines 16 – 27; in Yokozawa);

data extraction circuit operable coupled to retrieve the data form the gain modulated data (i.e. the headphones 110 and control unit 217 receive the amplified signal and display numbers and play analog audio accordingly; Fig. 1 in Yokozawa).

Regarding Claim 9, in addition to the elements stated above regarding claim 1, the combination of Yokozawa in view of Allen further discloses:

wherein the data processing circuitry further comprises:

display information module operable coupled to provide outgoing display data to the transceiving module (Fig. 1 elements 221 and 110 displays track and timing information from the portable audio device; Fig. 1 element 200).

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Regarding Claims 10, 15, 24 and 38, in addition to the elements stated above regarding claims 9, 14, 19 and 33, the combination of Yokozawa in view of Allen further discloses:

wherein the transceiving module further comprises:

data modulator operably coupled to modulate the outgoing display data to produce modulated outgoing display data (i.e. modem 7 modulates the data signal; Fig. 1 in Allen); and

combining circuit operably connected to combine the content data and the modulated display data to produce transmit data that is provided to the external content display device (i.e. the data and audio is combined and output at element 14 in Fig. 1 of Allen).

Regarding Claims 12, 17, 26, 31, 40 and 45, in addition to the elements stated above regarding claims 10, 15, 24, 28, 38 and 42, the combination of Yokozawa in view of Allen further discloses:

high pass filter operably coupled to the channel, wherein the high pass filter filters the modulated display data to produce filtered data, wherein the filtered data is provided on the channel (Fig. 1 element 3 of Allen); and

high frequency isolation module operably coupled to the channel, wherein the high frequency isolation module substantially attenuates the filtered data and passes the content data substantially untenanted such that the content data is isolated from the modulated display data (Fig. 1 element 3 of Allen).

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Regarding Claims 29 and 43, in addition to the elements stated above regarding claims 28 and 42, the combination of Yokozawa in view of Allen further discloses:

wherein the combining the display data and the content data further comprises: modulating the display data at a rate that is substantially higher than the rate of the content data to produce modulated display data (i.e. the data signal is sent in an upper portion of the channel bandwidth above that of the speech signal; col. 4 lines 3 – 7).

Claims 8, 11, 16, 23, 25, 30, 37, 39 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yokozawa (U.S. Patent 5,420,739) in view of Allen (U.S. Patent 4,442,540) and in further view of Barclay (U.S. Patent 6,850,55).

Regarding Claims 8, 23 and 37, in addition to the elements stated above regarding claims 6, 21 and 35, the combination of Yokozawa in view of Allen fails to disclose the limitations of the data extraction circuit claimed in claim 8.

Barclay discloses:

clock recovery circuit operably coupled to generate a clock signal from the gain modulated data (i.e. encoding may be employed in Fig. 4 to facilitate synchronization and or regeneration of a clock signal; col. 8 lines 19 – 21);

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a correlator operably coupled to receive the clock signal, wherein the correlator detects patterns of the data contained within the modulated data to produce correlated data (i.e. the correlator unit outputs positive and negative peaks when there is a match; col. 5 lines 29 – 31); and

a phase comparator operably coupled to receive the correlated data and to produce therefrom the data (i.e. the peaks output from the correlator are fed to a message regeneration circuit which coverts the peaks into binary signals).

It would have been obvious to one of ordinary skill in the art at the time of the invention to use Barclay's message regeneration method on the combination of Yokozawa in view of Allen. One would have been motivated to do so in order to efficiently send and receive modulated data from the player to the control unit.

Regarding Claims 11, 16, 25, 30, 39 and 44, in addition to the elements stated above regarding claims 6, 15, 24, 29, 38 and 43, the combination of Yokozawa in view of Allen fails to disclose the limitations of the data modulator claimed in claim 8.

Barclay discloses:

a pseudo random code generator operably coupled to produce a random code (i.e. Fig. 4 element 40); and

a modulator operably coupled to receive the random code and the outgoing display data to produce the modulated display data (i.e. the microprocessor receives the information from the message regeneration circuit and outputs it to display 49; Fig. 4).

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It would have been obvious to one of ordinary skill in the art at the time of the invention to use Barclay's message regeneration method on the combination of Yokozawa in view of Allen. One would have been motivated to do so in order to efficiently send and receive modulated data from the player to the control unit.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew C. Flanders whose telephone number is (571) 272-7516. The examiner can normally be reached on M-F 8:30 - 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on (571) 272-7546. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

acf

SINH TRÂN SUPERVISORY PATENT EXAMINER